

Designing battery-powered applications with USB-C PD

Make the most of EZ-PD™ PMG1-B1, a high-voltage MCU for USB-PD with an integrated buck-boost battery charge controller

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Abstract

Infineon's [EZ-PD™ PMG1 family](#) of high-voltage microcontrollers (MCUs) with USB-C Power Delivery (PD) provides an integrated solution for building embedded systems that supply/consume power to/from the high-voltage USB-C port and additionally need an MCU to implement the required product features.

This whitepaper targets embedded firmware engineers and system designers interested in adopting USB-C into their embedded applications, such as smart speakers, IoT hubs, home appliances, internet gateways, power, and garden tools. The purpose is to learn how to develop integrated solutions using EZ-PD™ PMG1-B1, the industry's first high-voltage microcontroller with an integrated buck-boost battery charge controller.

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